

WEST Search History

DATE: Wednesday, February 23, 2005

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Hide?	Set Name	Query	Hit Count
		<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L31	L30 and (polari\$9)	9
<input type="checkbox"/>	L30	L29 and (formation or earth or borehole or bore-hole or "bore hole" or wellbore or well-bore or "well bore")	11
<input type="checkbox"/>	L29	L28 and (density or bulk or model\$4)	13
<input type="checkbox"/>	L28	L26 and ((volume or amount) with (fraction\$5 or portion\$3 or part\$5))	14
<input type="checkbox"/>	L27	L26 and (porosity)	3
<input type="checkbox"/>	L26	L25 and L5	35
<input type="checkbox"/>	L25	((324/300 324/301 324/302 324/303 324/304 324/305 324/306 324/307 324/308 324/309 324/310 324/311 324/312 324/313 324/314 324/315 324/316 324/317 324/318 324/319 324/320 324/321 324/322)!..CCLS.)	7598
<input type="checkbox"/>	L24	L22 not L23	67
<input type="checkbox"/>	L23	L22 and (polari\$9)	15
<input type="checkbox"/>	L22	L21 and (formation or earth or borehole or bore-hole or "bore hole" or wellbore or well-bore or "well bore")	82
<input type="checkbox"/>	L21	L20 and (density or bulk or model\$4)	82
<input type="checkbox"/>	L20	L19 and (porosity)	84
<input type="checkbox"/>	L19	L7 and ((dielectric\$6 or di-electric\$6) with (measure\$8 or determin\$8 or amount or acquir\$4))	278
<input type="checkbox"/>	L18	L17 and (spin-echo\$3 or "spin echo" or spinecho or CPMG or carr or purcell or meiboom or gil)	1
<input type="checkbox"/>	L17	L16 not L13	163
<input type="checkbox"/>	L16	L15 and ((volume or amount) with (oil or mud or fluid or water or hydrogeneous or liquid))	175
<input type="checkbox"/>	L15	L14 and (density or bulk or model\$4)	230
<input type="checkbox"/>	L14	L7 and (porosity)	239
<input type="checkbox"/>	L13	L12 and (spin-echo\$3 or "spin echo" or spinecho or CPMG or carr or purcell or meiboom or gil)	12
<input type="checkbox"/>	L12	L11 and ((volume or amount) with (oil or mud or fluid or water or hydrogeneous or liquid))	60
<input type="checkbox"/>	L11	L10 and (density or bulk or model\$4)	81
<input type="checkbox"/>	L10	L9 and (porosity)	84
<input type="checkbox"/>	L9	L7 and ((temperature or heat\$4 or thermal\$3 or Kelvin or celcius or farenheight) with (saline or salinity or salt))	490

<input type="checkbox"/>	L8	L7 and ((brine) with (saline or salinity or salt))	5
<input type="checkbox"/>	L7	L6 and ((volume or amount) with (fraction\$5 or portion\$3 or part\$5))	1681
<input type="checkbox"/>	L6	L5 and (temperature or heat\$4 or thermal\$3 or Kelvin or celcius or fareignheight farenheight or fairenheight or fareinheight)	3470
<input type="checkbox"/>	L5	L4 and (brine or saline or salinity or salt)	3506
<input type="checkbox"/>	L4	L3 and (oil or mud or fluid or water or hydrogeneous or liquid)	5725
<input type="checkbox"/>	L3	L2 and (dielectric\$6 or di-electric\$6)	6539
<input type="checkbox"/>	L2	L1 and (fraction\$5 or portion\$3 or part\$5)	158592
<input type="checkbox"/>	L1	((magnetic adj resonance) or MRI or NMR)	190295

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20040032257 A1

Using default format because multiple data bases are involved.

L30: Entry 1 of 11

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Freedman, Robert	Houston	TX	US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WAC	Draw D
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☐ 2. Document ID: US 20030164703 A1

L30: Entry 2 of 11

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030164703

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030164703 A1

TITLE: Method and apparatus for performing neuroimaging

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ferris, Craig F.	Holden	MA	US	
King, Jean A.	Worcester	MA	US	
Allard, Arthur C.	Templeton	MA	US	
Ludwig, Reinhold	Paxton	MA	US	
Bogdanov, Gene	Manchester	CT	US	

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	ENOC	Drawings
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☐ 3. Document ID: US 20030006768 A1

L30: Entry 3 of 11

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030006768

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030006768 A1

TITLE: Magnetic resonance method for characterizing fluid samples withdrawn from subsurface earth formations

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kleinberg, Robert L.	Ridgefield	CT	US	
Madio, David P.	Danbury	CT	US	
Mullins, Oliver C.	Ridgefield	CT	US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	ENOC	Drawings
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☐ 4. Document ID: US 6825657 B2

L30: Entry 4 of 11

File: USPT

Nov 30, 2004

US-PAT-NO: 6825657

DOCUMENT-IDENTIFIER: US 6825657 B2

TITLE: Magnetic resonance method for characterizing fluid samples withdrawn from subsurface earth formations

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kleinberg; Robert L.	Ridgefield	CT		
Madio; David P.	Danbury	CT		
Mullins; Oliver C.	Ridgefield	CT		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	ENOC	Drawings
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☐ 5. Document ID: US 6711430 B1

L30: Entry 5 of 11

File: USPT

Mar 23, 2004

US-PAT-NO: 6711430

DOCUMENT-IDENTIFIER: US 6711430 B1

TITLE: Method and apparatus for performing neuroimaging

DATE-ISSUED: March 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ferris; Craig F.	Holden	MA		
King; Jean A	Worcester	MA		
Allard; Arthur C.	Templeton	MA		
Ludwig; Reinhold	Paxton	MA		
Bogdanov; Gene	Manchester	CT		

US-CL-CURRENT: 600/417; 324/318, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Draw Ds
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☐ 6. Document ID: US 6346813 B1

L30: Entry 6 of 11

File: USPT

Feb 12, 2002

US-PAT-NO: 6346813

DOCUMENT-IDENTIFIER: US 6346813 B1

TITLE: Magnetic resonance method for characterizing fluid samples withdrawn from subsurface formations

DATE-ISSUED: February 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kleinberg; Robert L.	Ridgefield	CT		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Draw Ds
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☐ 7. Document ID: US 5252922 A

L30: Entry 7 of 11

File: USPT

Oct 12, 1993

US-PAT-NO: 5252922

DOCUMENT-IDENTIFIER: US 5252922 A

TITLE: Radiofrequency focusing of magnetic resonance images

DATE-ISSUED: October 12, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson, III; John D.	Palo Alto	CA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIND	Draw D
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☐ 8. Document ID: US 5221900 A

L30: Entry 8 of 11

File: USPT

Jun 22, 1993

US-PAT-NO: 5221900

DOCUMENT-IDENTIFIER: US 5221900 A

TITLE: Magnet structure for focusing of magnetic resonance images

DATE-ISSUED: June 22, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson, III; John D.	Palo Alto	CA		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIND	Draw D
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☐ 9. Document ID: US 5185573 A

L30: Entry 9 of 11

File: USPT

Feb 9, 1993

US-PAT-NO: 5185573

DOCUMENT-IDENTIFIER: US 5185573 A

**** See image for Certificate of Correction ****TITLE: Method for focusing of magnetic resonance images

DATE-ISSUED: February 9, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson, III; John D.	Palo Alto	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIND	Draw D
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☐ 10. Document ID: US 4785245 A

L30: Entry 10 of 11

File: USPT

Nov 15, 1988

US-PAT-NO: 4785245

DOCUMENT-IDENTIFIER: US 4785245 A

TITLE: Rapid pulse NMR cut meter

DATE-ISSUED: November 15, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lew; Hyok S.	Arvada	CO		
Schlatter; Gerald L.	Boulder	CO		

US-CL-CURRENT: 324/308; 324/307, 324/314, 324/319, 324/321, 436/173

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	ENC	Drawings
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☐ 11. Document ID: US 4728892 A

L30: Entry 11 of 11

File: USPT

Mar 1, 1988

US-PAT-NO: 4728892

DOCUMENT-IDENTIFIER: US 4728892 A

TITLE: NMR imaging of materials

DATE-ISSUED: March 1, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vinegar; Harold J.	Houston	TX		
Rothwell; William P.	Katy	TX		

US-CL-CURRENT: 324/309; 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	ENC	Drawings
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Term	Documents
FORMATION	1501318
FORMATIONS	72654
EARTH	501348

EARTHS	14969
BOREHOLE	37890
BOREHOLES	14283
BORE-HOLE	1525
BORE-HOLES	649
"BORE HOLE"	0
WELLBORE	16746
WELLBORES	4174
(L29 AND (FORMATION OR EARTH OR BOREHOLE OR BORE-HOLE OR "BORE HOLE" OR WELLBORE OR WELLBORE OR "WELL BORE")).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	11

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Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20040032257 A1

Using default format because multiple data bases are involved.

L31: Entry 1 of 9

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Freedman, Robert	Houston	TX	US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	INNO	Draw D
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☐ 2. Document ID: US 20030164703 A1

L31: Entry 2 of 9

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030164703
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030164703 A1

TITLE: Method and apparatus for performing neuroimaging

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ferris, Craig F.	Holden	MA	US	
King, Jean A.	Worcester	MA	US	
Allard, Arthur C.	Templeton	MA	US	
Ludwig, Reinhold	Paxton	MA	US	
Bogdanov, Gene	Manchester	CT	US	

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw D
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☐ 3. Document ID: US 20030006768 A1

L31: Entry 3 of 9

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030006768

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030006768 A1

TITLE: Magnetic resonance method for characterizing fluid samples withdrawn from subsurface earth formations

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kleinberg, Robert L.	Ridgefield	CT	US	
Madio, David P.	Danbury	CT	US	
Mullins, Oliver C.	Ridgefield	CT	US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw D
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☐ 4. Document ID: US 6825657 B2

L31: Entry 4 of 9

File: USPT

Nov 30, 2004

US-PAT-NO: 6825657

DOCUMENT-IDENTIFIER: US 6825657 B2

TITLE: Magnetic resonance method for characterizing fluid samples withdrawn from subsurface earth formations

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kleinberg; Robert L.	Ridgefield	CT		
Madio; David P.	Danbury	CT		
Mullins; Oliver C.	Ridgefield	CT		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw D
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☐ 5. Document ID: US 6711430 B1

L31: Entry 5 of 9

File: USPT

Mar 23, 2004

US-PAT-NO: 6711430

DOCUMENT-IDENTIFIER: US 6711430 B1

TITLE: Method and apparatus for performing neuroimaging

DATE-ISSUED: March 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ferris; Craig F.	Holden	MA		
King; Jean A	Worcester	MA		
Allard; Arthur C.	Templeton	MA		
Ludwig; Reinhold	Paxton	MA		
Bogdanov; Gene	Manchester	CT		

US-CL-CURRENT: 600/417; 324/318, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Draw De
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☐ 6. Document ID: US 6346813 B1

L31: Entry 6 of 9

File: USPT

Feb 12, 2002

US-PAT-NO: 6346813

DOCUMENT-IDENTIFIER: US 6346813 B1

TITLE: Magnetic resonance method for characterizing fluid samples withdrawn from subsurface formations

DATE-ISSUED: February 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kleinberg; Robert L.	Ridgefield	CT		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Draw De
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☐ 7. Document ID: US 5252922 A

L31: Entry 7 of 9

File: USPT

Oct 12, 1993

US-PAT-NO: 5252922

DOCUMENT-IDENTIFIER: US 5252922 A

TITLE: Radiofrequency focusing of magnetic resonance images

DATE-ISSUED: October 12, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson, III; John D.	Palo Alto	CA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 8. Document ID: US 5221900 A

L31: Entry 8 of 9

File: USPT

Jun 22, 1993

US-PAT-NO: 5221900

DOCUMENT-IDENTIFIER: US 5221900 A

TITLE: Magnet structure for focusing of magnetic resonance images

DATE-ISSUED: June 22, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson, III; John D.	Palo Alto	CA		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 9. Document ID: US 5185573 A

L31: Entry 9 of 9

File: USPT

Feb 9, 1993

US-PAT-NO: 5185573

DOCUMENT-IDENTIFIER: US 5185573 A

**** See image for Certificate of Correction ****TITLE: Method for focusing of magnetic resonance images

DATE-ISSUED: February 9, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson, III; John D.	Palo Alto	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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Term	Documents
POLARIS9	0
POLARI	103
POLARIAABLE	1
POLARIABILITY	1
POLARIAETERS	1
POLARIAING	2
POLARIAN	1
POLARIATION	37
POLARIATIONS	2
POLARIATY	2
POLARIAZATION	6
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WEST Search History

DATE: Wednesday, February 23, 2005

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L17	L16 and (gas\$4 or vapor\$4 or fum\$3 or liquid or formation or earth or vaporizing or vaporization)	6
<input type="checkbox"/>	L16	L15 and ((dielectric\$4 or di-electric\$4) with ((magnetic adj resonance) or MRI or NMR or resonan\$3))	7
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<input type="checkbox"/>	L14	L13 and ((determin\$3 or calculat\$3 or measur\$3) with ((water or fat\$2 or oil or lipid or hydrocarbon\$4) with (fraction\$3 or fractionally or portion or part\$3 or partially)))	1955
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<input type="checkbox"/>	L11	L10 and (fraction\$4 or portion or part\$4 or partially)	141502
<input type="checkbox"/>	L10	L9 and (water or fat\$2 or oil or lipid or hydrocarbon\$4)	154300
<input type="checkbox"/>	L9	((magnetic adj resonance) or MRI or NMR)	197629
<input type="checkbox"/>	L8	L7 and L6	9
<input type="checkbox"/>	L7	(324/300 324/301 324/302 324/303 324/304 324/305 324/306 324/307 324/308 324/309 324/310 324/311 324/312 324/313 324/314 324/315 324/316 324/317 324/318 324/319 324/320 324/321 324/322).ccls.	8104
<input type="checkbox"/>	L6	L5 and (vector\$4)	27
<input type="checkbox"/>	L5	L3 and (measur\$4 with ((water or fat or oil) with (fraction\$3 or portion or part)))	477
<input type="checkbox"/>	L4	L3 and ((water or fat or oil) with (fraction\$3 or portion or part))	42159
<input type="checkbox"/>	L3	L2 and (fraction\$3 or portion or part)	118580
<input type="checkbox"/>	L2	L1 and (water or fat or oil)	133165
<input type="checkbox"/>	L1	((magnetic ad resonance) or MRI or NMR)	165304

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20040188140 A1

Using default format because multiple data bases are involved.

L16: Entry 1 of 7

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040188140

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040188140 A1

TITLE: In-situ heavy-oil reservoir evaluation with artificial temperature elevation

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chen, Songhua	Katy	TX	US	
Georgi, Daniel T.	Houston	TX	US	

US-CL-CURRENT: 175/17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Ds
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☐ 2. Document ID: US 20040032257 A1

L16: Entry 2 of 7

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Freedman, Robert	Houston	TX	US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Ds
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☐ 3. Document ID: US 20030034777 A1

L16: Entry 3 of 7

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030034777
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030034777 A1

TITLE: In-situ heavy-oil reservoir evaluation with artificial temperature elevation

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chen, Songhua	Katy	TX	US	
Georgi, Daniel T.	Houston	TX	US	

US-CL-CURRENT: 324/303; 702/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMC	Drawings
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☐ 4. Document ID: US 6755246 B2

L16: Entry 4 of 7

File: USPT

Jun 29, 2004

US-PAT-NO: 6755246
DOCUMENT-IDENTIFIER: US 6755246 B2

TITLE: In-situ heavy-oil reservoir evaluation with artificial temperature elevation

DATE-ISSUED: June 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Songhua	Katy	TX		
Georgi; Daniel T.	Houston	TX		

US-CL-CURRENT: 166/250.01; 166/250.02, 166/272.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMC	Drawings
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☐ 5. Document ID: US 4728418 A

L16: Entry 5 of 7

File: USPT

Mar 1, 1988

US-PAT-NO: 4728418
DOCUMENT-IDENTIFIER: US 4728418 A

TITLE: Process for the low-temperature depolymerization of coal and its conversion

to a hydrocarbon oil

DATE-ISSUED: March 1, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shabtai; Joseph S.	Salt Lake City	UT		
Saito; Ikuro	Sakuramura			JP

US-CL-CURRENT: 208/413, 208/403, 208/405, 208/406, 208/420, 208/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 6. Document ID: GB 2395015 A, US 20040032257 A1, CA 2435945 A1

L16: Entry 6 of 7

File: DWPI

May 12, 2004

DERWENT-ACC-NO: 2004-179991

DERWENT-WEEK: 200432

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TITLE: Evaluation of formation fluids of gas-bearing formation involves determining oil volume fraction from nuclear magnetic resonance and dielectric measurements

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 7. Document ID: US 2817813 A

L16: Entry 7 of 7

File: USOC

Dec 24, 1957

US-PAT-NO: 2817813

DOCUMENT-IDENTIFIER: US 2817813 A

TITLE: Measurement of the complex tensor permeability and the complex dielectric constant of ferrites

DATE-ISSUED: December 24, 1957

INVENTOR-NAME: ROWEN JOHN H; VON AULOCK WILHELM H

US-CL-CURRENT: 324/636, 324/606, 324/653, 333/109

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
MAGNETIC	1474882

MAGNETICS	12874
RESONANCE	291965
RESONANCES	17027
MRI	26477
MRIS	376
NMR	144003
NMRS	248
DIELECTRIC\$4	0
DIELECTRIC	495351
(L15 AND ((DIELECTRIC\$4 OR DI-ELECTRIC\$4) WITH ((MAGNETIC ADJ RESONANCE) OR MRI OR NMR OR RESONAN\$3))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7

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☐ 1. Document ID: US 20040188140 A1

Using default format because multiple data bases are involved.

L17: Entry 1 of 6

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040188140

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040188140 A1

TITLE: In-situ heavy-oil reservoir evaluation with artificial temperature elevation

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chen, Songhua	Katy	TX	US	
Georgi, Daniel T.	Houston	TX	US	

US-CL-CURRENT: 175/17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20040032257 A1

L17: Entry 2 of 6

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Freedman, Robert	Houston	TX	US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20030034777 A1

L17: Entry 3 of 6

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030034777

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030034777 A1

TITLE: In-situ heavy-oil reservoir evaluation with artificial temperature elevation

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chen, Songhua	Katy	TX	US	
Georgi, Daniel T.	Houston	TX	US	

US-CL-CURRENT: 324/303; 702/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Drawings
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☐ 4. Document ID: US 6755246 B2

L17: Entry 4 of 6

File: USPT

Jun 29, 2004

US-PAT-NO: 6755246

DOCUMENT-IDENTIFIER: US 6755246 B2

TITLE: In-situ heavy-oil reservoir evaluation with artificial temperature elevation

DATE-ISSUED: June 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Songhua	Katy	TX		
Georgi; Daniel T.	Houston	TX		

US-CL-CURRENT: 166/250.01; 166/250.02, 166/272.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	DOC	Drawings
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☐ 5. Document ID: US 4728418 A

L17: Entry 5 of 6

File: USPT

Mar 1, 1988

US-PAT-NO: 4728418

DOCUMENT-IDENTIFIER: US 4728418 A

TITLE: Process for the low-temperature depolymerization of coal and its conversion

to a hydrocarbon oil

DATE-ISSUED: March 1, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shabtai; Joseph S.	Salt Lake City	UT		
Saito; Ikuo	Sakuramura			JP

US-CL-CURRENT: 208/413, 208/403, 208/405, 208/406, 208/420, 208/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub.	Visio. U.
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☐ 6. Document ID: GB 2395015 A, US 20040032257 A1, CA 2435945 A1

L17: Entry 6 of 6

File: DWPI

May 12, 2004

DERWENT-ACC-NO: 2004-179991

DERWENT-WEEK: 200432

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TITLE: Evaluation of formation fluids of gas-bearing formation involves determining oil volume fraction from nuclear magnetic resonance and dielectric measurements

Full	Title	Citation	Front	Review	Classification	Date	Reference		
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